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DESCRIPTORS: *Butenes, *Acetylenes, *Ethylenes, Pyrolysis, Oxygen, Reaction kinetics.

Commercial butylene fraction was pyrolyzed in the presence of oxygen at 1200 C under 60-120 mm Hg and at a gas residence time of 0.001 sec. in mixture with hydrogen. The process was investigated by the dynamic method, varying the oxygen content up to 38 vol. %. It was found that 8 to 10 vol. % oxygen sharply reduces the coke and resin yields in comparison to the thermal (Chemistry--Physical, TT, v. 10, no. 11) (over)

63-18887

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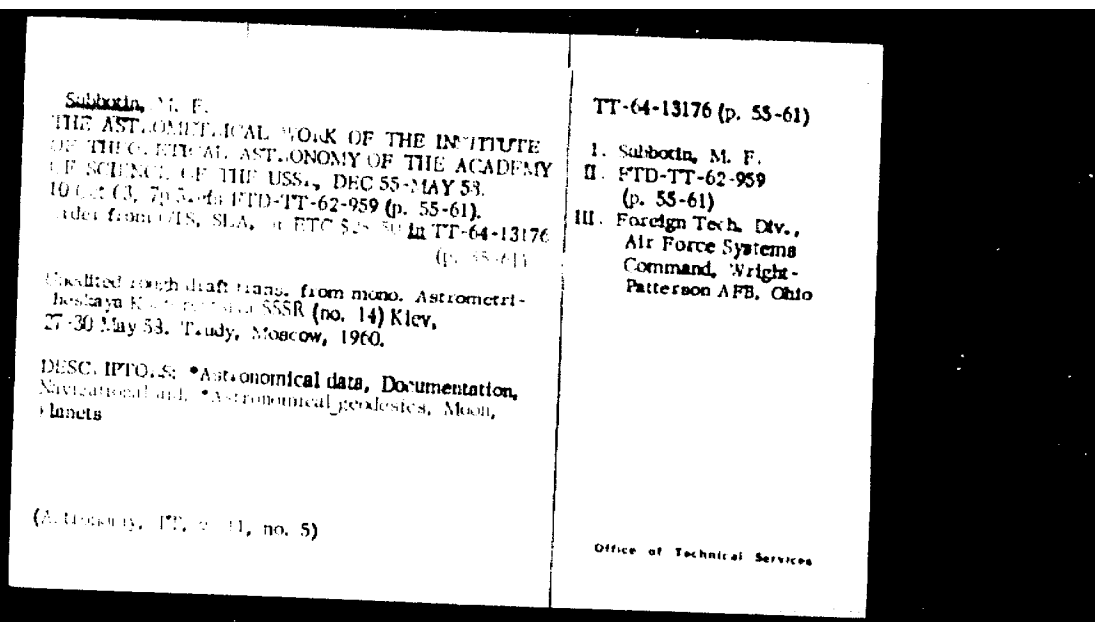
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Vibro-mixing yields a definite effect also in mixing
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